



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,669	07/10/2003	Peter Rae Shintani	50T5573.01	2598
7590	10/05/2004		EXAMINER	
ROGITZ & ASSOCITES Suite 3120 750 B Street San Diego, CA 92101				VU, JIMMY T
			ART UNIT	PAPER NUMBER
			2821	

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/616,669	SHINTANI ET AL.  X	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jimmy T Vu	2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 10 July 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-24 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-7 and 10-24 is/are rejected.
- 7) Claim(s) 8 and 9 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    - a) All    b) Some \* c) None of:
      1. Certified copies of the priority documents have been received.
      2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
      3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 7/10/03.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_.

**DETAILED ACTION**

***Information Disclosure Statement***

The references listed on the information disclosure statement submitted on 07/10/2003 have been considered.

***Drawings***

1. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because Figures 1-6 are informal. The hand-written marks are not acceptable in the drawings. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-7, 12, 14, 18-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Webb (U.S. Patent number 6,686,707 B1).

Regarding claims 1, 12, 14, 18 and 19, Webb discloses a raster-type display (300) and method for correcting for electron beam misalignment, comprising:

- a landing correction coil (310);
- a current source (DC) (col. 6, lines 50-52) coupled to the landing correction coil and outputting a landing misalignment correction signal thereto; and
- at least one sensor (306) generating a control signal, the control signal being sent to the current source to establish the landing misalignment correction signal at least partially based thereon, the landing misalignment correction signal being representative of at least one of temperature, ambient magnetic field, and pressure (Figs. 1-14, col. 1, lines 25-65, col. 6, lines 7-57).

Regarding claim 2, Webb discloses the display wherein the landing correction coil is disposed at location of the display wherein electron beams for respective activation of red, green, and blue display elements converge (Fig. 3).

Regarding claim 3, Webb discloses the display wherein the display contains no other landing correction coils apart from the landing correction coil, the landing correction coil also carrying a speed correction signal (Fig. 3).

Regarding claim 4, Webb discloses the display wherein the current source receives a position signal for establishing an amplitude of the landing misalignment signal at least partially based on a position of an electron beam of the display (col. 7, lines 1-32).

Regarding claim 5, Webb discloses the display wherein the control signal is a DC signal (col. 6, lines 50-55).

Regarding claim 6, Webb discloses the display wherein the current source comprises a member (308) receiving the control signal and converting the control signal to the time varying landing misalignment correction signal (Fig. 3, col. 6, lines 35-45).

Regarding claim 7, Webb discloses the display wherein the member receives a time varying signal from a horizontal drive circuit of the display (Figs. 12 and 13).

Regarding claim 20, Webb discloses the display wherein the current source means receives a vertical position signal for establishing an amplitude of the landing misalignment signal at least partially based on a vertical position of the scanning electron beam (col. 7, lines 1-32).

Regarding claim 21, Webb discloses the display wherein the control signal is a DC signal (col. 6, lines 50-52).

Regarding claim 22, Webb discloses the display wherein the current source means comprises switch means (SW1-SW4) for receiving the control signal and converting the control signal to the landing misalignment correction signal (Figs. 12 and 13).

Regarding claim 23, Webb discloses the display wherein the switch means receives a time varying signal from a horizontal drive circuit (Figs. 12 and 13).

Regarding claim 24, Webb discloses the display the single coil means also carrying a speed correction signal (Fig. 13).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2821

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 10, 11, 13 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Webb (U.S. Patent number 6,686,707 B1) in view of Dossot (U.S. Patent number 5,621,287).

Regarding claim 10, Webb does not teach the display comprising a velocity modulation (VM) coil. However, as evidenced by Dossot, providing the velocity modulation (50) (Figs. 1 and 2, col. 3, lines 30-40) for CRT is well known in the art. Therefore it would have been obvious to an ordinary skill in the art at the time of the invention was made to provide the device of Webb with the velocity modulation of Dossot in order to generate the electron beam in the CRT to enhance the perceived sharpness of the displayed picture.

Regarding claim 11, the combination of Webb and Dossot teaches the display wherein the VM coil and the landing correction coil both obviously receive signals for correcting for electron beam misalignment.

Regarding claim 13, Dossot teaches the display wherein the coil is a VM (50) carrying a speed correction signal (Figs. 1 and 2, col. 3, lines 30-40).

Regarding claim 15, the combination of Webb and Dossot teaches the method wherein the display obviously includes a velocity modulation (VM) coil and the method includes applying signals for correcting for electron beam misalignment to the VM coil and the landing correction coil.

Regarding claim 16, the combination of Webb and Dossot teaches the method obviously comprising applying a vertical position signal for establishing an amplitude of the landing

misalignment signal at least partially based on a vertical position of an electron beam of the display.

Regarding claim 17, the combination of Webb and Dossot teaches the method wherein the control signal is a DC signal (col. 6, lines 50-52 of Webb) and the current source comprises a switch (SW1-SW4) (Figs. 12 and 13 of Webb) receiving the control signal and converting the control signal to the time varying landing misalignment correction signal.

#### ***Allowable Subject Matter***

6. Claims 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

None of the prior art teaches the display wherein the sensor is the pressure sensor and the time varying signal is the sinusoid, and wherein the sensor is at least one of the temperature sensor, and the magnetic sensor, and the landing misalignment correction signal is the ramp signal.

#### ***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy T Vu whose telephone number is (571) 272-1832. The examiner can normally be reached on M - F: 9 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2800.

Jimmy Vu

September 24, 2004

  
Don Wong  
Supervisory Patent Examiner  
Technology Center 2800